## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-23. (Cancelled).

24. (New) A method for manufacturing a nitride semiconductor light emitting device, the nitride semiconductor light emitting device including:

an n-type cladding layer made of an n-type nitride semiconductor;

a p-type cladding layer made of a p-type nitride semiconductor; and

an active layer provided between the n-type and p-type cladding layers, being

made of an nitride semiconductor containing In;

the method comprising steps of:

forming a first p-type nitride semiconductor layer made of  $Al_aGa_{1-a}N$  (0 < a < 1) using metal organic chemical vapor deposition with nitrogen atmosphere, after formation of the active layer;

forming a second p-type nitride semiconductor layer made of  $Al_bGa_{l-b}N$  (0 < b < 1) using metal organic chemical vapor deposition with hydrogen atmosphere, after formation of the first p-type nitride semiconductor layer; and

forming the p-type cladding layer, after formation of the second p-type nitride semiconductor layer.

25. (New) The method according to claim 24, further comprising a step of: forming the active layer using metal organic chemical vapor deposition with the

same atmosphere as that for the first p-type nitride semiconductor layer.

- 26. (New) The method according to claim 24, further comprising a step of:

  forming a p-type guide layer between the second p-type nitride semiconductor layer and the p-type cladding layer.
- 27. (New) The method according to claim 24, wherein a total thickness of the first and second p-type nitride semiconductor layers is set in a range from 10 to 1000 Å inclusive.
- 28. (New) The method according to claim 24, wherein a total thickness of the first and second p-type nitride semiconductor layers is set in a range from 20 to 400 Å inclusive.
- 29. (New) The method according to claim 24, wherein a thickness of the first p-type nitride semiconductor layer is set in a range from 10 to 100 Å inclusive.
- 30. (New) The method according to claim 24, wherein a thickness of the second p-type nitride semiconductor layer is set in a range from 10 to 300 Å inclusive.
- 31. (New) The method according to claim 24, wherein an Al mixture ratio (a) of the first p-type nitride semiconductor layer is set in a range from 0.1 to 0.5 inclusive.
- 32. (New) The method according to claim 24, wherein an Al mixture ratio (a) of the first p-type nitride semiconductor layer is set in a range from 0.1 to 0.35 inclusive.
- 33. (New) The method according to claim 24, wherein an Al mixture ratio (b) of the second p-type nitride semiconductor layer is set in a range from 0.1 to 0.5 inclusive.
  - 34. (New) The method according to claim 24, wherein an Al mixture ratio (b) of

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the second p-type nitride semiconductor layer is set in a range from 0.1 to 0.35 inclusive.

- 35. (New) The method according to claim 24, wherein the p-type cladding layer is made of  $Al_xGa_{1-x}N$  (0 < x < 1), whose Al ratio (x) satisfies both  $x \le a$  and  $x \le b$ .
- 36. (New) The method according to claim 26, further comprising steps of:

  forming a p-type contact layer, after formation of the p-type cladding layer; and
  forming a stripe-shaped ridge waveguide by etching an upper portion above the
  active layer from the p-type contact layer side so that the p-type guide layer has a
  protruding portion, after formation of the p-type contact layer.
  - 37. (New) The method according to claim 36, further comprising a step of: forming an insulating film on an etched surface of the p-type guide layer.
- 38. (New) The method according to claim 24, further comprising steps of:

  forming a p-type contact layer, after formation of the p-type cladding layer; and
  forming a stripe-shaped ridge waveguide by etching an upper portion above the
  active layer from the p-type contact layer side so that the p-type cladding layer has a
  protruding portion, after formation of the p-type contact layer.
  - 39. (New) The method according to claim 38, further comprising a step of: forming an insulating film on an etched surface of the p-type cladding layer.
- 40. (New) The method according to claim 26, further comprising a step of: forming the p-type guide layer by diffusion of Mg included in the first p-type nitride semiconductor layer into an undoped layer.
  - 41. (New) The method according to claim 24, wherein the p-type cladding layer

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has a super lattice structure formed by laminating GaN and AlGaN.

- 42. (New) The method according to claim 24, wherein the active layer has a quantum well structure including a well layer made of  $In_cGa_{1-c}N$  ( $0 \le c < 1$ ).
- 43. (New) The method according to claim 42, wherein the active layer has a single quantum well structure formed by laminating a well layer and a barrier layer made of AlInGaN.
- 44. (New) The method according to claim 42, wherein the active layer has a multi quantum well structure formed by laminating a well layer and a barrier layer made of AlInGaN.
- 45. (New) The method according to claim 43, wherein the active layer has a middle layer made of  $Al_uGa_{1-u}N$  ( $0 \le u \le 1$ ) on the well layer.
- 46. (New) The method according to claim 44, wherein the active layer has a middle layer made of  $Al_uGa_{1-u}N$  ( $0 \le u \le 1$ ) on the well layer.